what is unicode in computer science

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Aperçu généré par IA

Unicode is a universal character encoding standard that assigns a unique number, called a code point, to every character, symbol, and emoji across all of the world's writing systems. It solves old limits of systems like ASCII so that computers can show any language correctly. EBSCO +5

How Unicode Works

- **Code Points**: Every letter or sign gets a unique ID written like `U+0041` for the letter 'A'.
- **Universal Reach**: It covers over 150,000 characters spanning global alphabets, math symbols, and emojis.
- **No Conflicts**: It stops different programs or languages from mixing up text characters. EBSCO +4

Popular Encoding Formats (UTFs)

- **UTF-8**: Uses 1 to 4 bytes per character and works best for the web because it saves space and matches old ASCII text.
- **UTF-16**: Uses 2 or 4 bytes; often used in Windows systems and Java.
- **UTF-32**: Uses 4 bytes for every single character, making it simple but heavy on memory. DEV Community +1

If you want, let me know if you would like to learn **how UTF-8 converts characters into binary bytes** or **how it compares directly with ASCII**.

9 sites

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Unicode (also known as The Unicode Standard and TUS) is a character encoding standard maintained by the Unicode Consortium designe...

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Unicode is a character-encoding system that allows computers to consistently represent text across different languages and platfor...

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What is Unicode in simple terms?

What is Unicode computer science?

What is the Unicode for ❤?

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Unicode is a character encoding standard maintained by the Unicode Consortium designed to support the use of text in all of the world's writing systems that ...

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What is Unicode? How to Use It & Benefits of Using It

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Unicode is a standard encoding system that assigns a unique numeric value to every character, regardless of the platform, program, or language.

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Unicode - UTF-8, UTF-16 and UTF32

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28 nov. 2025 — **Unicode** is a universal character encoding standard designed to represent text and symbols from all writing systems around the world.

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Unicode

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How does Unicode work? Well, it's complicated, but the simplest answer is that **it uses more than one byte per character**. The most common way to store Unicode in ...

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Unicode is a comprehensive character-encoding system that allows computers to consistently represent text across different languages and platforms.

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12 janv. 2021 — **Unicode** is a common, massive character set for all the world's languages, glyphs and emoji. The UTF encoding family is how computers know which sequence of ...

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16 mars 2026 — **Unicode** is the global standard for character encoding that enables computers and networks to handle text from all world languages consistently.

DEV Community
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8 oct. 2025 — Computers store text as numbers. **Unicode gives each character a unique number**. To actually store or transmit these numbers, computers use ...

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YouTube · Jacob Sorber
2 déc. 2025

7:36

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YouTube · Erik Wilde
24 mars 2023

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YouTube · WhiteboardDoodles
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